

CLAIM AMENDMENTS

- 1 1 (currently amended): A rotatable control rod mechanism, comprising:
- 2 (a) a rod having a spiral thread configuration;
- 3 (b) a spiral thread follower mounted on the rod for rotating the rod in
- 4 opposite directions when the spiral thread follower is translated along the rod in opposite
- 5 directions and gripped externally to prevent rotation thereof;
- 6 (c) a handle mounted over the spiral thread follower for rotation about the spiral
- 7 thread follower, the handle adapted for being gripped externally and moved in opposite directions
- 8 along the rod with the spiral thread follower, thereby allowing the spiral thread follower to be
- 9 rotated in opposite directions by the rod when the handle and spiral thread follower are translated
- 10 together along the rod and the spiral thread follower is not gripped; and
- 11 (d) the spiral thread follower further comprising a section which is exposed
- 12 relative to the handle to allow selectively gripping the spiral thread follower to selectively
- 13 prevent rotation thereof when the handle and the spiral thread follower are translated together
- 14 along the rod.
- 1 2 (currently amended): A rotatable control rod mechanism, comprising:
- 2 (a) a rotatable load;
- 3 (b) a rod having a spiral thread configuration along the surface thereof;
- 4 (c) means connecting the rod to the load for rotating the load and rod
- 5 together;
- 6 (d) a spiral thread follower having a collar, the follower mounted on the rod
- 7 for rotating along the rod in opposite directions following the spiral thread configuration,

8 the spiral thread follower having a collar for receiving application of an external force
9 applied to the collar to prevent rotation of the spiral thread follower; and

10 (e) a handle mounted over and rotatably captured to the spiral thread
11 follower such that the handle and the spiral thread follower move together when one is
12 moved along the rod and the spiral thread follower freely rotates around the handle in the
13 absence of said external force, the handle being physically close to and exposing the
14 collar thereof, the handle being adapted for rotating about the spiral thread follower to
15 application of said external force, whereby applying said external force while moving the
16 handle and spiral thread follower together in opposite directions along the rod rotates the
17 rod in opposite directions, and the absence of said external force while moving the
18 handle and spiral thread follower together in opposite directions along the rod allows the
19 rod to rotate the spiral thread follower in opposite directions.

1 3 (currently amended): A plural stroke control rod mechanism, comprising:

2 (a) a rotatable shaft;
3 (b) a rod having spiral convolutions;
4 (c) means connecting the rod to the shaft for rotating the shaft and rod
5 together; and

6 (d) a handle device, comprising:
7 (1) a stepped cylinder comprising a ~~first upper section or~~ collar and a
8 ~~second lower section or~~ tube having a bottom end; the outer diameter of the collar
9 being of large dimension relative to the outer diameter of the tube; and the stepped
10 cylinder having a longitudinal axis and having an internal axially-extending bore
11 mounting the stepped cylinder along the rod for rotation along the spiral
12 convolutions of the rod;

13 (2) a handle comprising a member having upper and lower ends, a
14 longitudinal axis and an axial bore therein extending to the upper and lower ends
15 thereof, the member rotatably mounting the tube ~~of the stepped cylinder~~ therein
16 with the relatively large diameter collar protruding from and rotatably seated along
17 the upper end of the member; and

18 (3) the member and the collar comprising surfaces for gripping the
19 member to move the handle device bidirectionally along the spiral rod and for
20 gripping the collar to selectively prevent rotation of the collar, thereby selectively
21 preventing rotation of the stepped cylinder and thereby selectively forcing rotation
22 of the spiral rod during such bidirectional movement.

23 ~~(3) the stepped cylinder being of sufficient length such that the~~
24 ~~bottom end thereof protrudes from the bottom end of the bore of the member;~~ and

25 ~~(4) means securing the lower end of the stepped cylinder to the~~
26 ~~member such that the stepped cylinder is rotatably captured to the member~~
27 ~~between the collar member and the securing means.~~

1 4 (withdrawn): A method for reversibly and repeatedly rotating a rod having a spiral
2 thread configuration, a thread follower mounted on the rod and a handle rotatably
3 mounted over the spiral thread follower exposing a section of the spiral thread follower,
4 the method comprising: first, engaging the exposed section to prevent rotation of the
5 section and the spiral thread follower and translating the spiral thread follower along the
6 rod in a first or a second direction of translation and thereby rotating the rod in a first or a
7 second direction of rotation, respectively; and, second, engaging the handle to prevent
8 rotation thereof while allowing rotation of the section and the spiral thread follower
9 around the rod and translating the handle and the spiral thread follower along the rod in a

10 first or a second direction of translation, thereby positioning the handle and the spiral
11 thread follower for another first step.

1 5 (withdrawn): A method for reversibly and repeatedly rotating a rotatable load,
2 comprising:
3 (a) connecting to the load a rod having spiral convolutions;
4 (b) mounting on the rod a spiral thread follower having a collar and a handle
5 rotatably mounted along the spiral thread follower exposing the collar;
6 (c) selectively engaging the collar to prevent rotation thereof and sliding the
7 handle along the rod in a first direction of translation or a second, opposite direction of
8 translation, thereby rotating the rod in a first direction of rotation or a second, opposite
9 direction of rotation; and
10 (d) selectively sliding the handle along the rod in the first or second direction of
11 translation without engaging the collar sufficiently to prevent rotation thereof, thereby
12 repositioning the handle along the rod in the first or second direction of translation
13 without rotating the rod.

1 6 (new): The control rod mechanism of claim 3, the handle device further comprising:
2 (4) the bottom end of the tube protruding from the lower end of the
3 member; and
4 (5) a retainer attached to the bottom end of the tube for rotatably capturing
5 the member between the retainer and the collar.